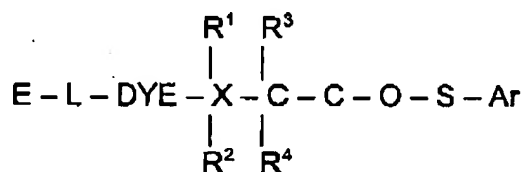


The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) A composition comprising a pharmaceutically acceptable carrier and sulfenates having the formula



wherein E is selected from the group consisting of somatostatin receptor binding molecules, heat sensitive bacterioendotoxin receptor binding molecules, neurotensin receptor binding molecules, bombesin receptor binding molecules, cholecystekinin receptor binding molecules, steroid receptor binding molecules, and carbohydrate receptor binding molecules, and ~~dihydroxyindolecarboxylic~~ dihydroxyindolecarboxylic acid; L and X are independently selected from the group consisting of $-(\text{R}^5)\text{NOC}-$, $-(\text{R}^5)\text{NOCCH}_2\text{O}-$, $-(\text{R}^5)\text{NOCCH}_2\text{CH}_2\text{O}-$, $-\text{OCN}(\text{R}^5)-$, $-\text{HNC}(=\text{S})\text{NH}-$, and $\text{HNC}(=\text{O})\text{NH}-$; DYE is an aromatic or a heteroaromatic radical of cyanines which are conjugated azamethine polyene systems containing a cationic nitrogen atom at one end and a neutral, tertiary nitrogen at the other end, ~~indocyanines, phthalocyanines, rhodamines, phenoxazines, phenothiazines, phenoselenazines, fluoresceins, porphyrins, benzoporphyrins, squaraines, corins, croconiums, azo dyes, methine dyes, indolenium dyes, crellins, or hypocrellins~~; R^1 to R^5 are independently selected from the group comprising hydrogen, C1-C10 alkyl, C5-C10 aryl, C1-C10 polyhydroxyalkyl, and

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C1-C10 polyalkoxyalkyl; and Ar is an aromatic or heteroaromatic radical of benzenes, naphthalenes, naphthoquinones, diphenylmethanes, fluorenes, anthracenes, anthraquinones, phenanthrenes, tetracenes, naphthacenediones, pyridines, quinolines, isoquinolines, indoles, isoindoles, pyrroles, imidiazoles, oxazoles, thiazoles, pyrazoles, pyrazines, purines, benzimidazoles, furans, benzofurans, dibenzofurans, carbazoles, acridines, acridones, phenanthridines, thiophenes, benzothiophenes, dibenzothiophenes, xanthenes, xanthones, flavones, coumarins, or anthacylines.

2. (PREVIOUSLY PRESENTED) The compound of claim 1 wherein E is selected from the group consisting of somatostatin receptor binding molecules, heat sensitive bacterioendotoxin receptor binding molecules, neurotensin receptor binding molecules, bombesin receptor binding molecules, cholecystekinin receptor binding molecules, and steroid receptor binding molecules; L and X are independently selected from the group consisting of $-(R^5)NOC-$, and $-(R^5)NOCCH_2O-$; DYE is a cyanine; R^1 to R^5 are independently selected from the group consisting of hydrogen, C1-C10 alkyl, C5-C10 aryl, and C1-C10 polyhydroxyalkyl; and Ar is an aromatic benzene radical.

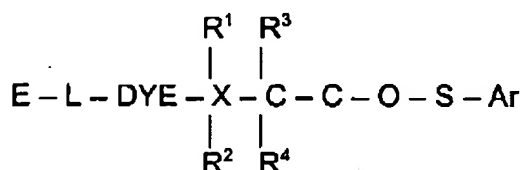
3-10. CANCELED.

11. (ORIGINAL) The compound of claim 1 wherein E is associated with a biomolecule selected from the group consisting of hormones, amino acids, peptides, peptidomimetics, proteins, nucleosides, nucleotides, nucleic acids, enzymes, carbohydrates, glycomimetics, lipids, albumins, monoclonal antibodies, polyclonal

antibodies, receptors, inclusion compounds, receptor binding molecules, polyaminoacids, polyols, polyamines, polyacids, oligonucleotides, aborols, dendrimers, and aptamers.

12. (CURRENTLY AMENDED) A method of performing a phototherapeutic procedure which comprises the steps of:

(a) administering to a target tissue in an animal an effective amount of sulfenate photosensitizers in a pharmaceutically acceptable carrier, the sulfenates having the formula



wherein E is selected from the group consisting of somatostatin receptor binding molecules, heat sensitive bacterioendotoxin receptor binding molecules, neurotensin receptor binding molecules, bombesin receptor binding molecules, cholecystekinin receptor binding molecules, steroid receptor binding molecules, and carbohydrate receptor binding molecules, and dihydroxyindolecarboxylic acid; L and X are independently selected from the group consisting of $-(R^5)NOC-$, $-(R^5)NOCCH_2O-$, $-(R^5)NOCCH_2CH_2O-$, $-OCN(R^5)-$, $-HNC(=S)NH-$, and $HNC(=O)NH-$; DYE is an aromatic or a heteroaromatic radical of cyanines which are conjugated azamethine polyene systems containing a cationic nitrogen atom at one end and a neutral, tertiary nitrogen at the other end; ~~indocyanines, phthalocyanines, rhodamines, phenoxazines,~~

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~~phenothiazines, phenoselenazines, fluoresceins, porphyrins, benzoporphyrins,~~
~~squaraines, comins, croconiums, azo dyes, methine dyes, indolenium dyes, crellins, or~~
~~hypocrellins~~; R¹ to R⁵ are independently selected from the group comprising hydrogen,
C1-C10 alkyl, C5-C10 aryl, C1-C10 polyhydroxyalkyl, and C1-C10 polyalkoxyalkyl; and
Ar is an aromatic or heteroaromatic radical of benzenes, naphthalenes,
naphthoquinones, diphenylmethanes, fluorenes, anthracenes, anthraquinones,
phenanthrenes, tetracenes, naphthacenediones, pyridines, quinolines, isoquinolines,
indoles, isoindoles, pyrroles, imidazoles, oxazoles, thiazoles, pyrazoles, pyrazines,
purines, benzimidazoles, furans, benzofurans, dibenzofurans, carbazoles, acridines,
acridones, phenanthridines, thiophenes, benzothiophenes, dibenzothiophenes,
xanthenes, xanthonenes, flavones, coumarins, or anthacylines; and

(b) exposing said target tissues with the light of wavelength between 300 and 950 nm
with sufficient power and fluence rate to cause necrosis or apoptosis of the said target
tissue.

13. (ORIGINAL) The method of claim 12 further comprising the step of allowing said
photosensitizer to accumulate in said target tissue.

14. (PREVIOUSLY PRESENTED) The method of claim 12, wherein E is selected
from the group consisting of somatostatin receptor binding molecules, heat sensitive
bacterioendotoxin receptor binding molecules, neurotensin receptor binding molecules,
bombesin receptor binding molecules, cholecystekinin receptor binding molecules, and
steroid receptor binding molecules; L and X are independently selected from the group

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consisting of $-(R^5)NOC-$, and $-(R^5)NOCCH_2O-$; DYE is a cyanine; R^1 to R^5 are independently selected from the group consisting of hydrogen, C1-C10 alkyl, C5-C10 aryl, and C1-C10 polyhydroxyalkyl; and Ar is an aromatic benzene radical.

15-22. CANCELED.

23. (ORIGINAL) The method of claim 12 wherein E is associated with a biomolecule selected from the group consisting of hormones, amino acids, peptides, peptidomimetics, proteins, nucleosides, nucleotides, nucleic acids, enzymes, carbohydrates, glycomimetics, lipids, albumins, monoclonal antibodies, polyclonal antibodies, receptors, inclusion compounds, receptor binding molecules, polyaminoacids, polyols, polyamines, polyacids, oligonucleotides, aborols, dendrimers, and aptamers.

24. (ORIGINAL) The method of claim 23 wherein the effective amount of the sulfenate photosensitizer administered to the target tissue is in a range of about 0.1 mg/kg body weight to about 500 mg/kg body weight.

25. (ORIGINAL) The method of claim 24 wherein the effective amount of the sulfenate photosensitizer administered to the target tissue is in a range of about 0.5 mg/kg body weight to about 2 mg/kg body weight.

B2- 26. (ORIGINAL) The method of claim 12 wherein the sulfenate photosensitizer is parenterally administered to the target tissue in a formulation including the sulfenate photosensitizer and materials selected from the group consisting of pharmaceutically acceptable buffers, emulsifiers, surfactants, and electrolytes.

27. (ORIGINAL) The method of claim 26 wherein the formulation is parenterally administered to the target tissue in a concentration in a range of about 1 nM to about 0.5 M.

28. (ORIGINAL) The method of claim 12 wherein the sulfenate photosensitizer is enterally administered to the target tissue in a formulation including the sulfenate photosensitizer and materials selected from the group consisting of buffers, surfactants, emulsifiers, and thixotropic agents.

29. (ORIGINAL) The method of claim 12 wherein the sulfenate photosensitizer is topically administered to the target tissue in a formulation including the sulfenate photosensitizer and materials selected from the group consisting of liquid excipients and semisolid excipients.

30. (ORIGINAL) The method of claim 12 wherein the sulfenate photosensitizer is administered a form selected from the group consisting of an aerosol spray, a cream, a gel, and a solution.

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31. (NEW) The method of claim 12 wherein the target tissue is selected from the group consisting of breast lesions, prostate lesions, neuroendocrine tumors, lung cancer, colorectal cancer, melanoma, vascular diseases, and brain lesions.
